QUIZ 12   **Time: 10min**

Fill in the blanks in the first two problems

1. Rather than asking whether a power series converges, we should ask ————.

2. A power series always converges on a(n) ————, which may or may not include its ————.

3. Find the convergence set of

$$1 - x + \frac{x^2}{2} - \frac{x^3}{3} + \frac{x^4}{4} - \dots.$$

The first 3 problems are worth 3 points (one point per blank), and the last is worth 7 points.

LATEX . . . . $\mathcal{MG}$